

Figure 1

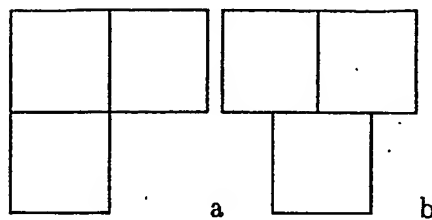


Figure 2

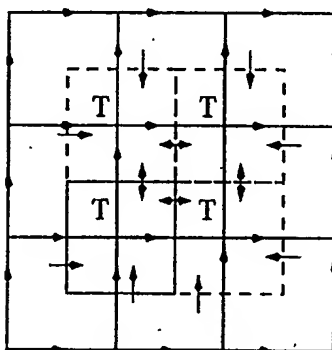


Figure 3



Figure 4

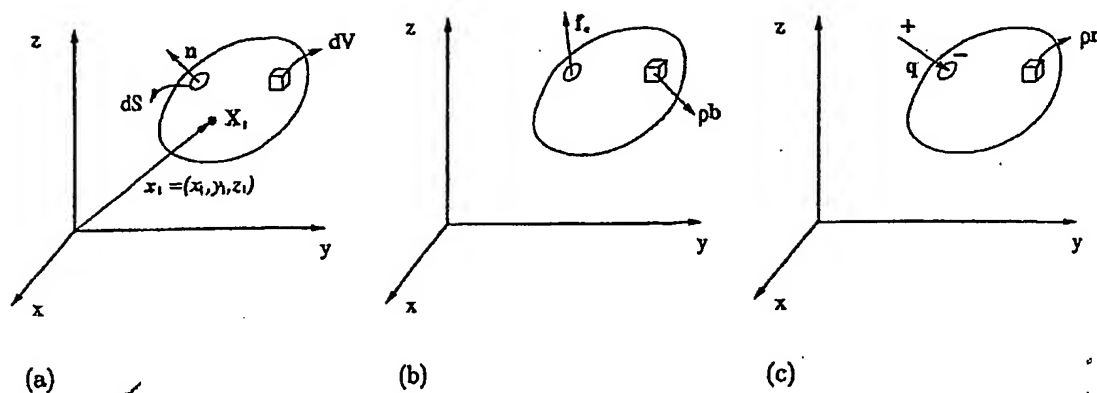


Figure 5

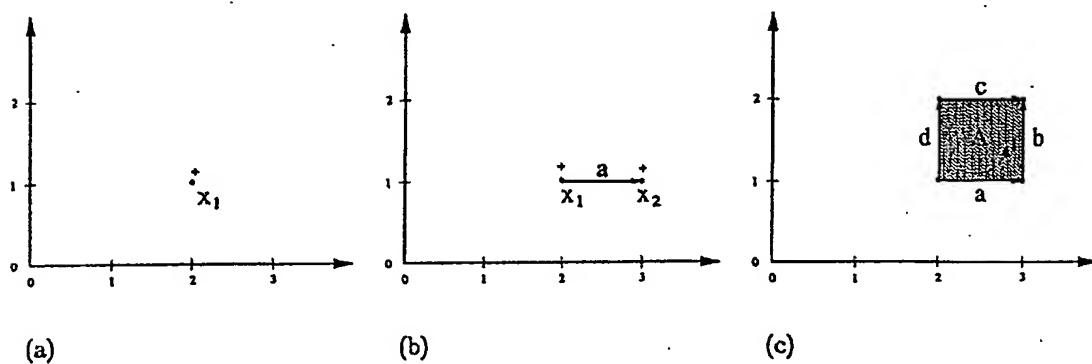


Figure 6

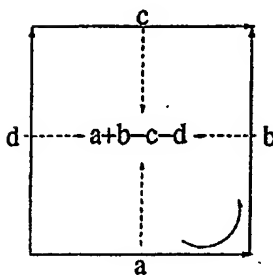


Figure 7

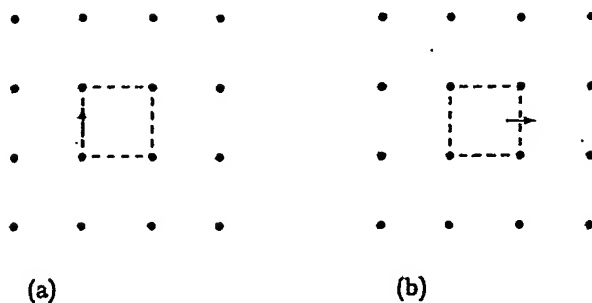


Figure 8

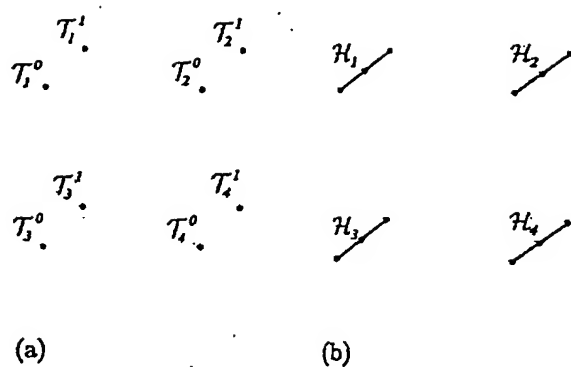


Figure 9

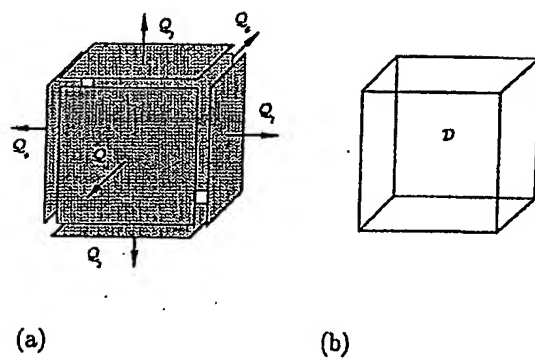


Figure 10

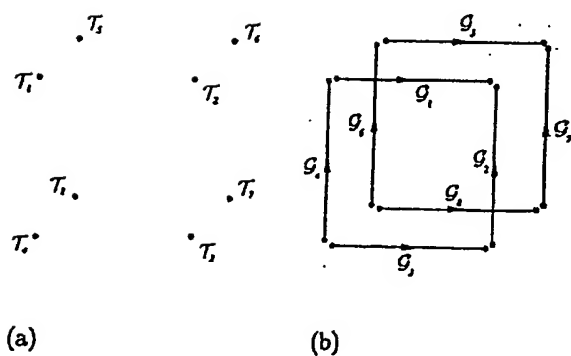


Figure 11

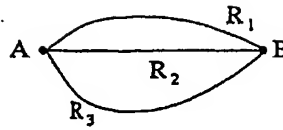


Figure 12

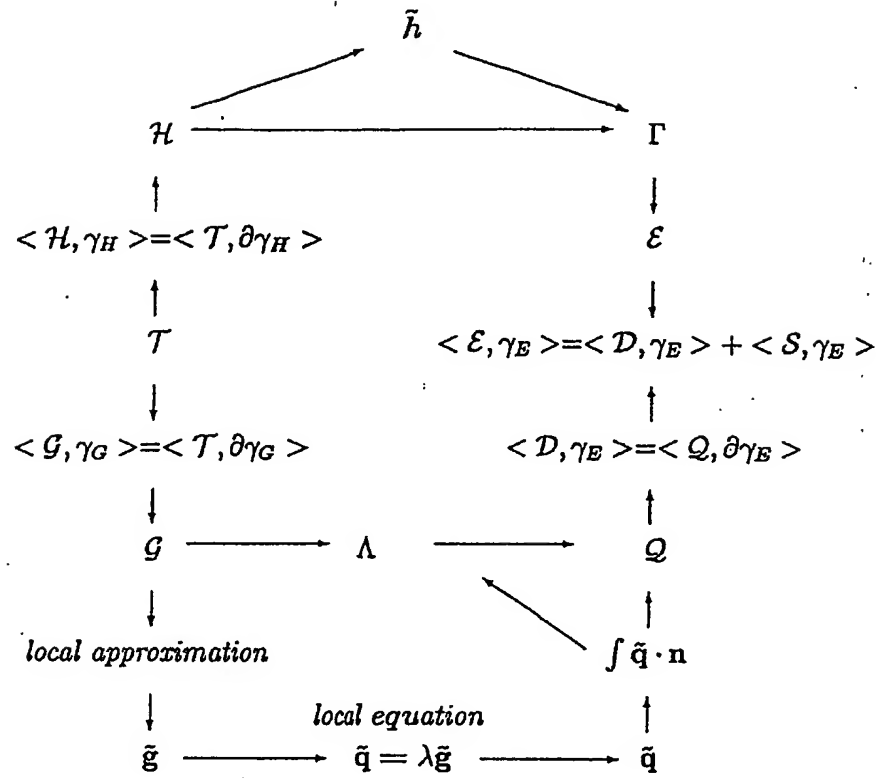


Figure 13

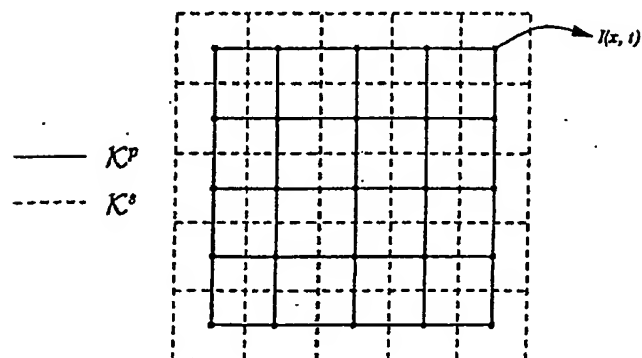


Figure 14

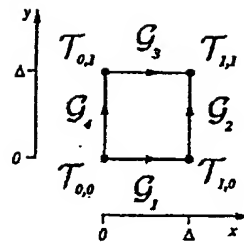
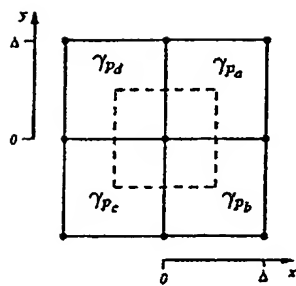
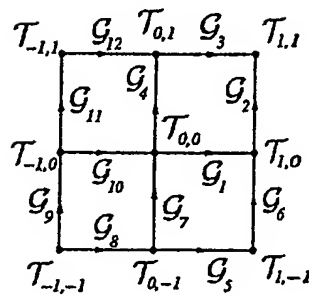


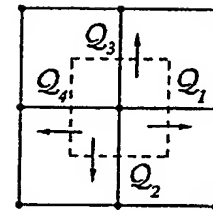
Figure 15



(a)



(b)



(c)

Figure 16

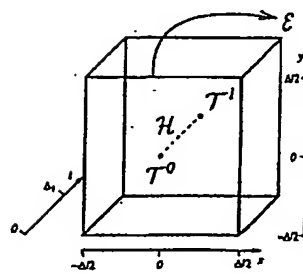


Figure 17

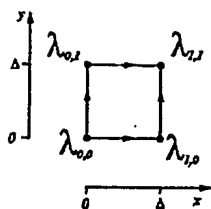
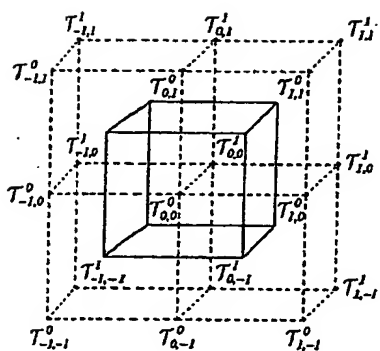
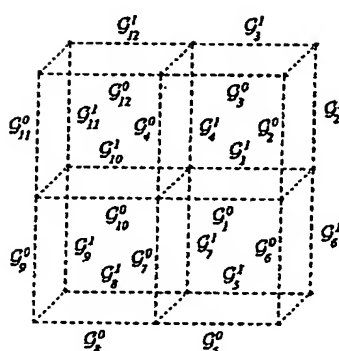


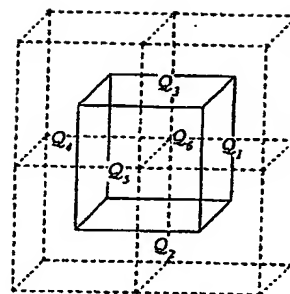
Figure 18



(a)



(b)



(c)

Figure 19

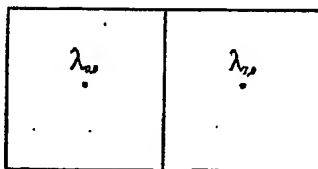


Figure 20

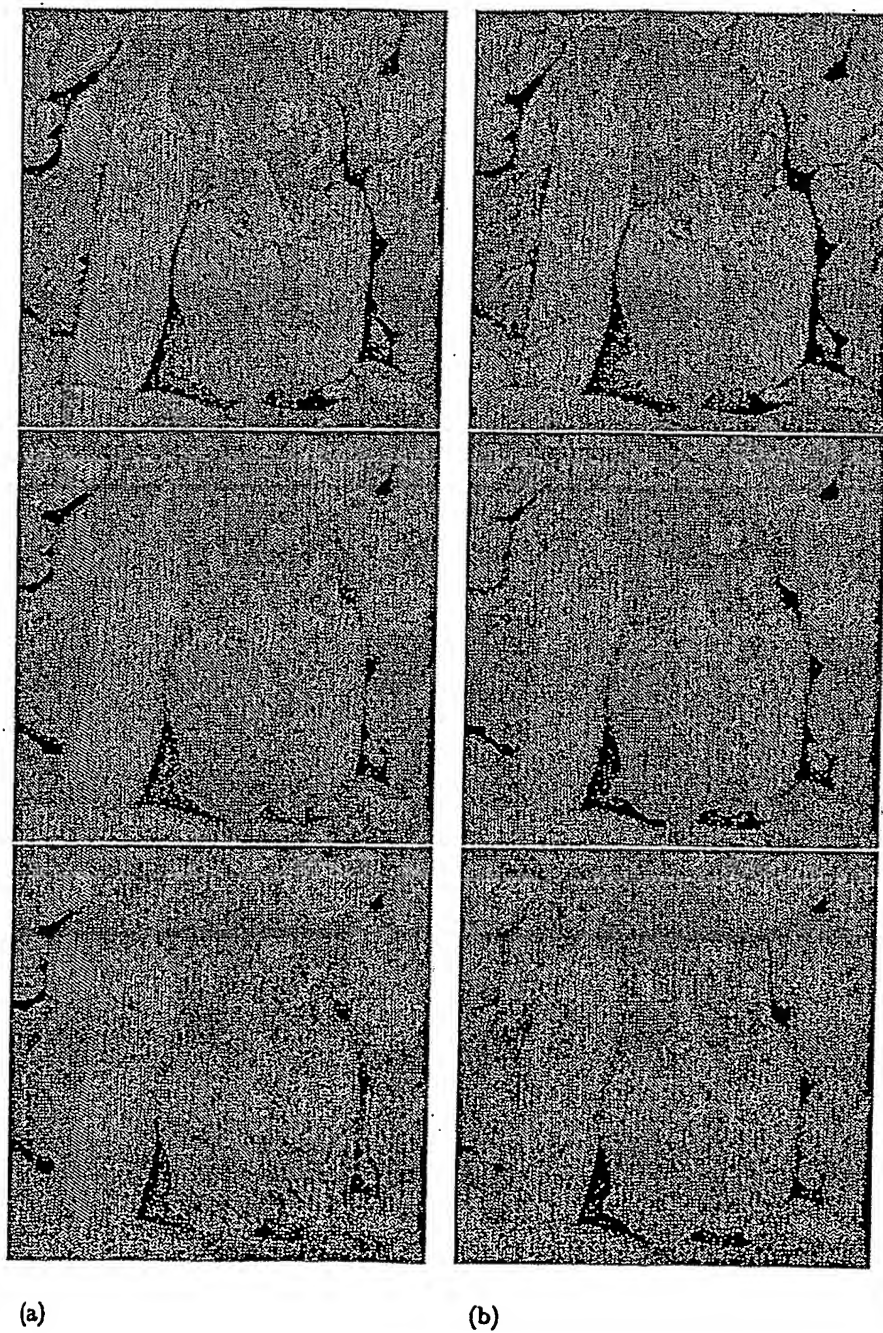
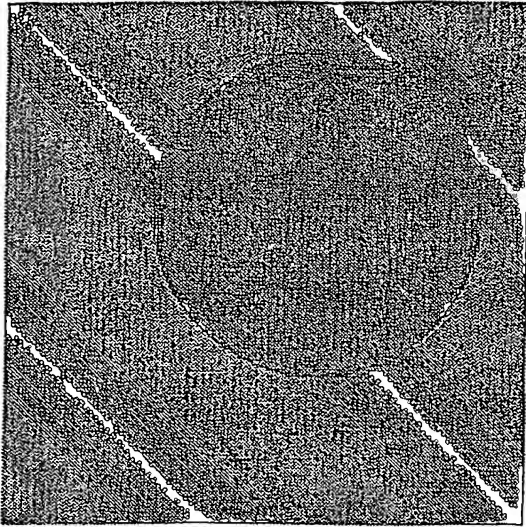
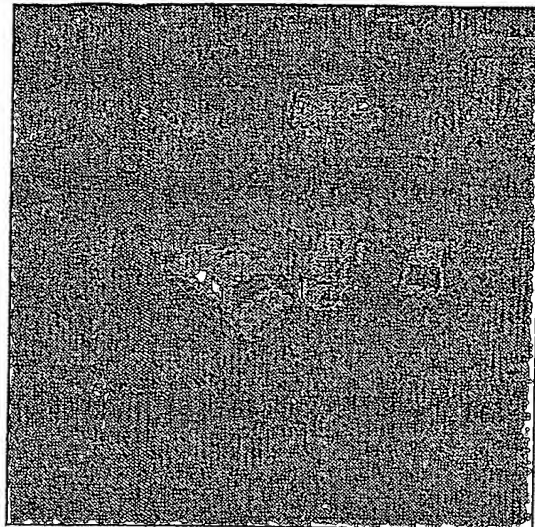


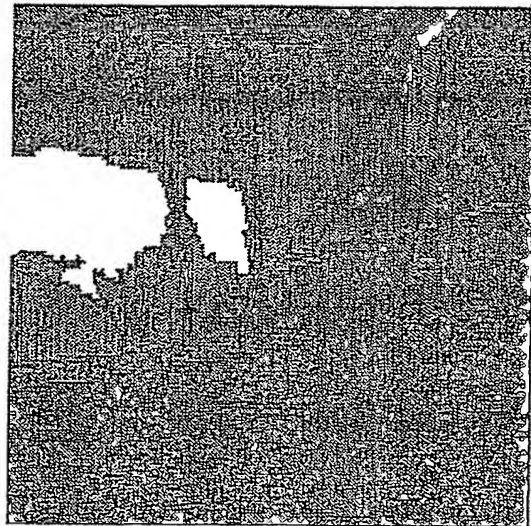
Figure 21



(a)

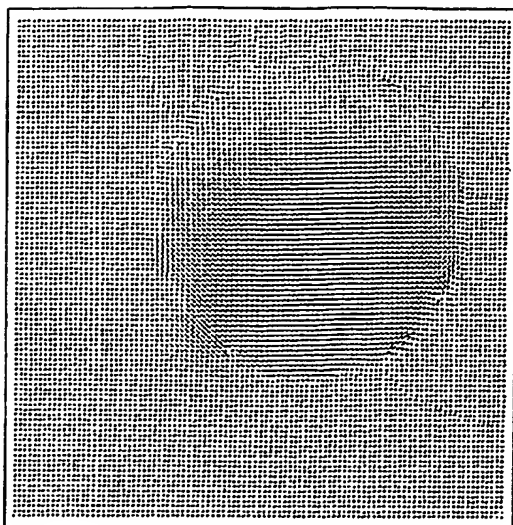


(b)

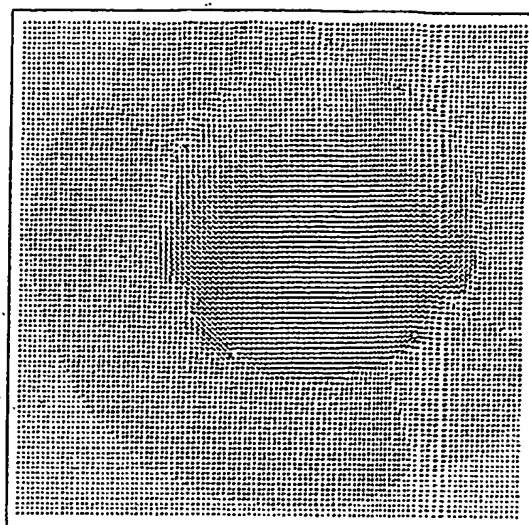


(c)

Figure 22

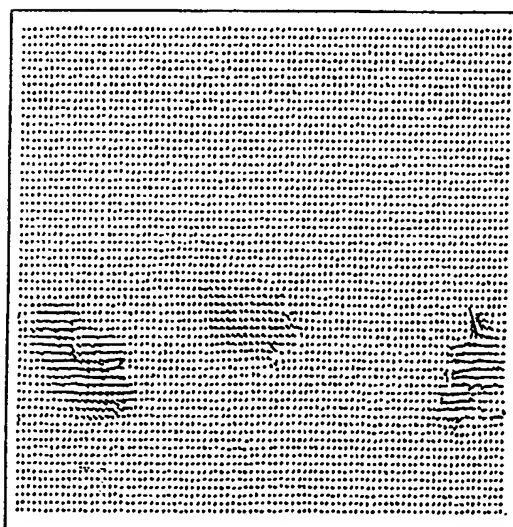


(a)

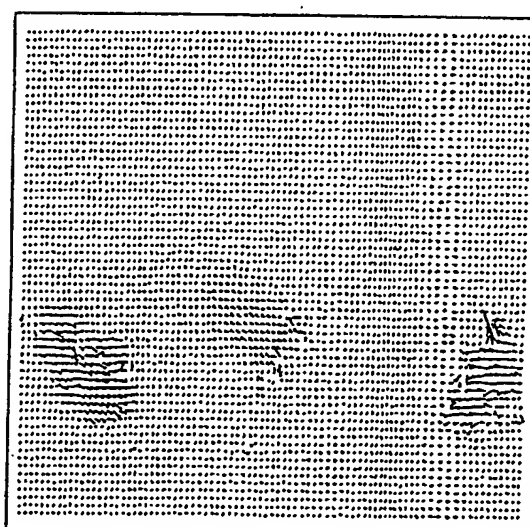


(b)

Figure 23



(a)



(b)

Figure 24

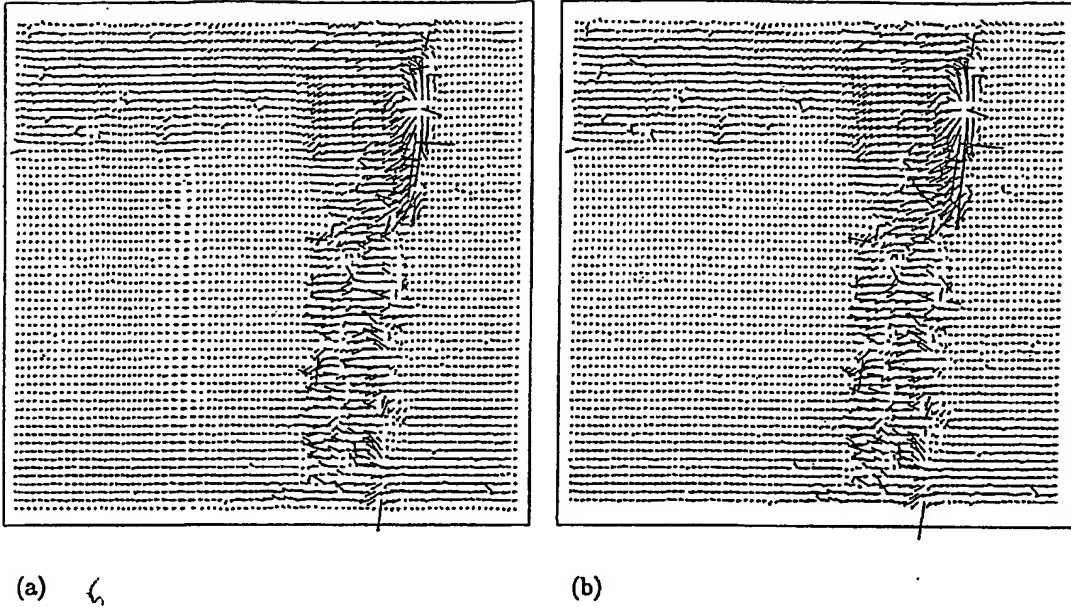
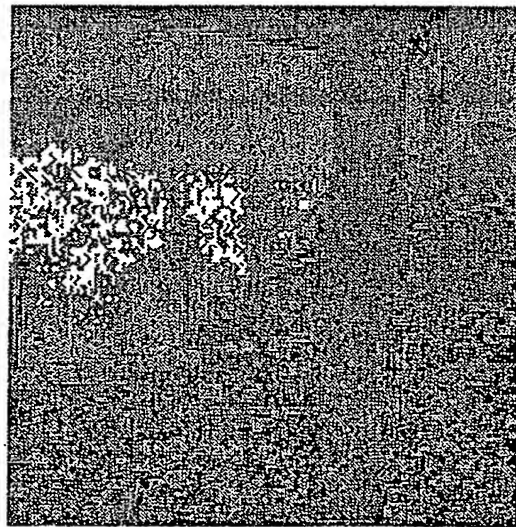


Figure 25



(a)

Figure 26

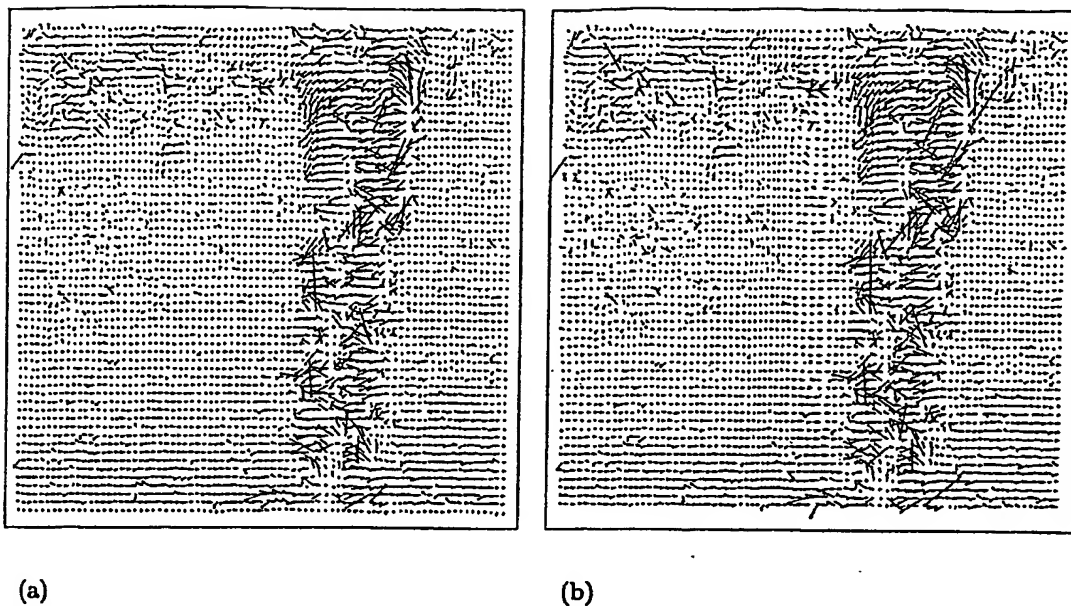
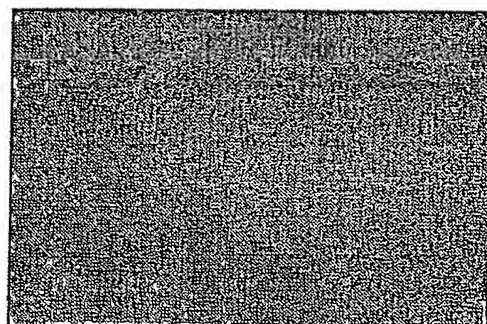
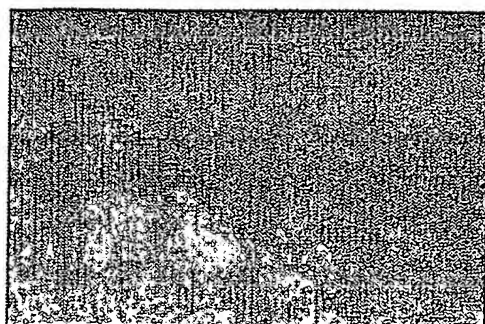


Figure 27



(a)

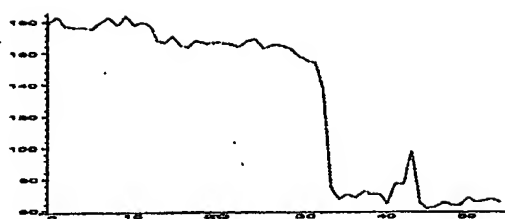


(b)

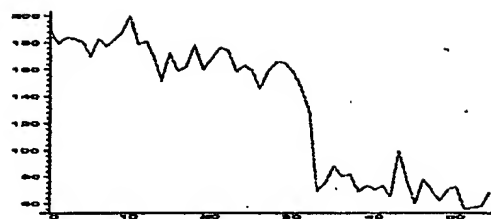


(c)

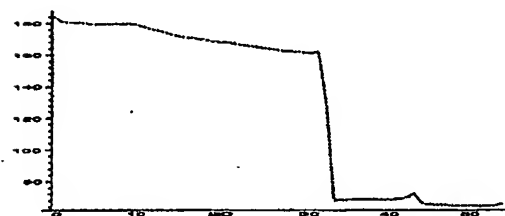
Figure 28



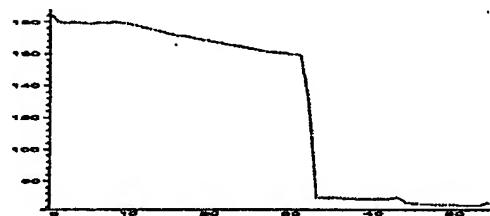
(a)



(b)

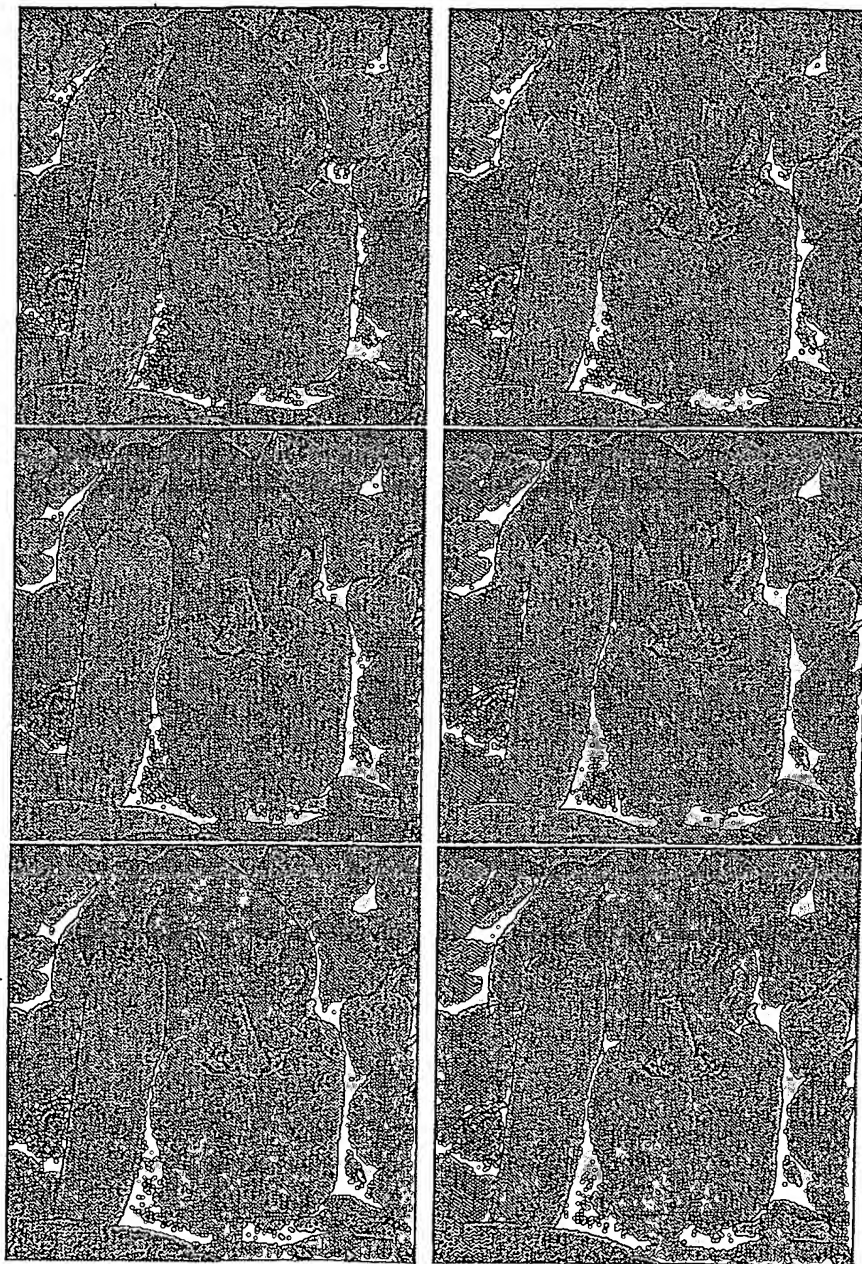


(c)



(d)

Figure 29



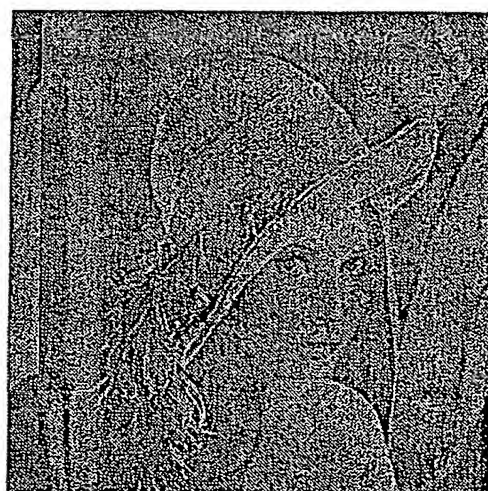
(a)

(b)

Figure 30



(a)



(b)

Figure 31

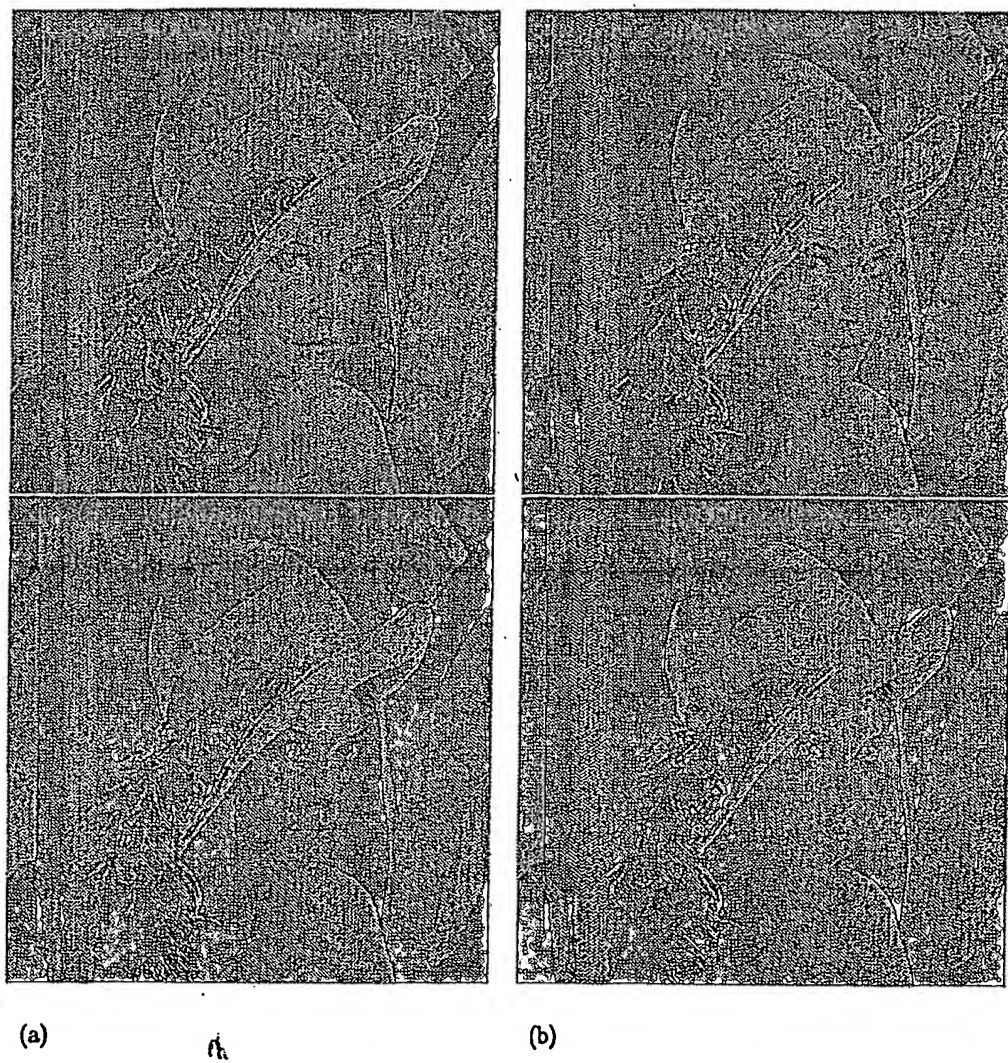
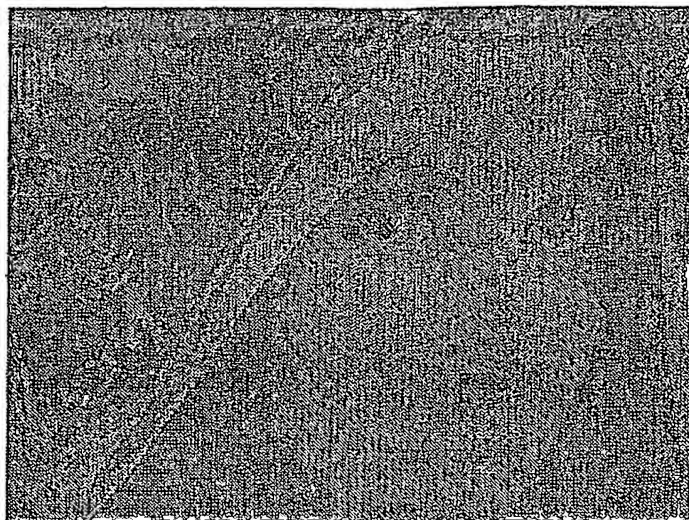
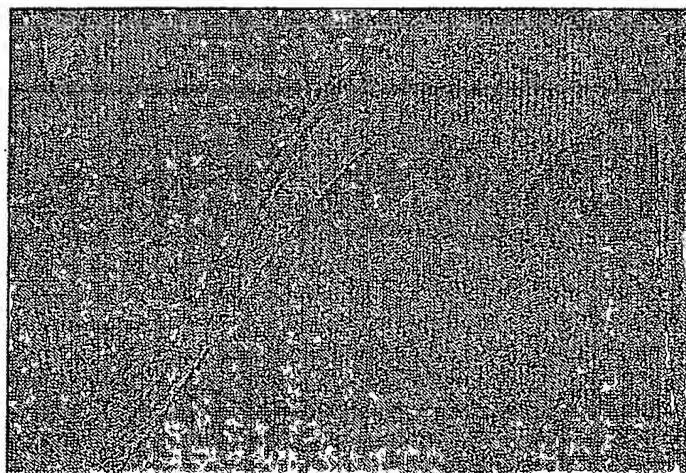


Figure 32



(a)



(b)

Figure 33

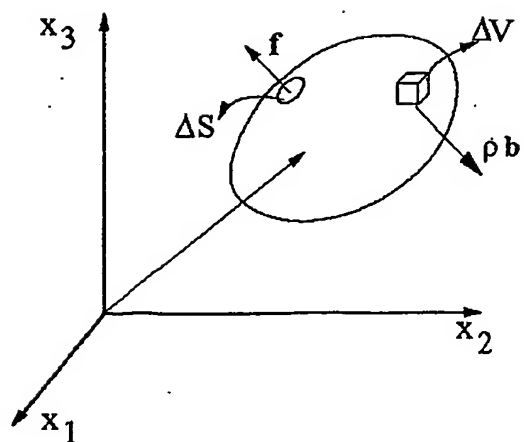


Figure 34

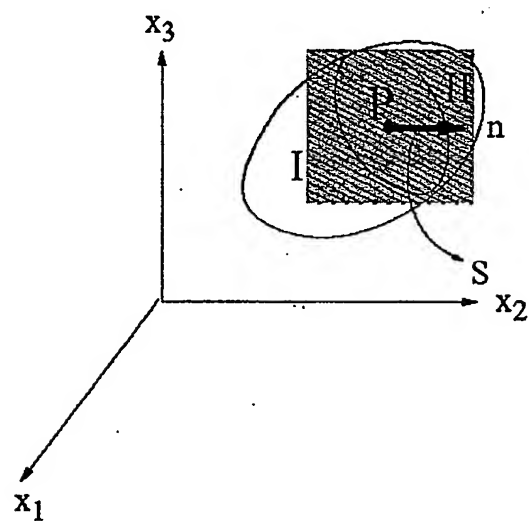


Figure 35

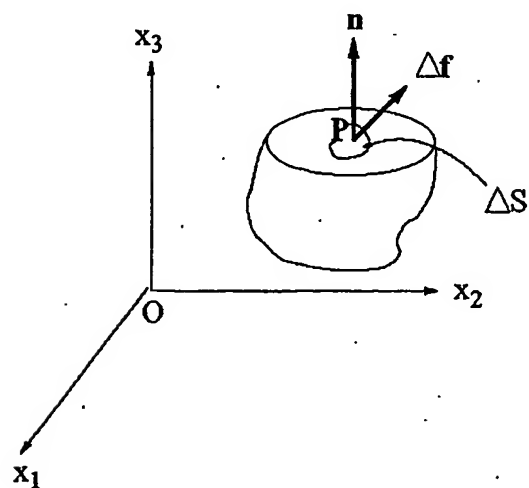


Figure 36

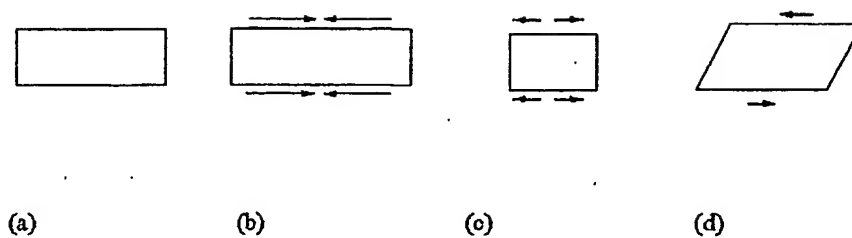


Figure 37

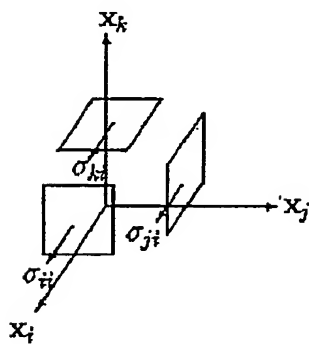


Figure 38

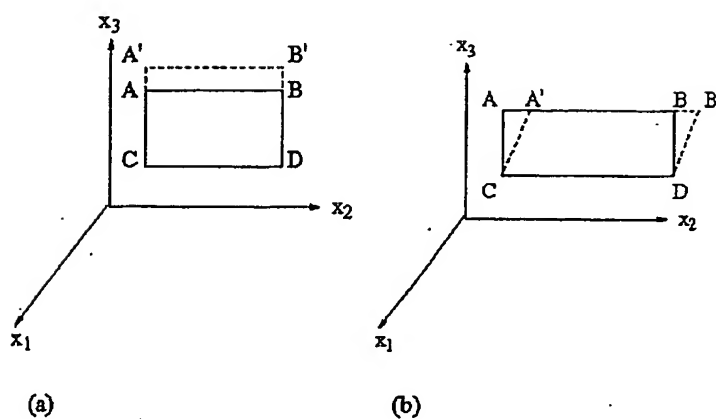


Figure 39

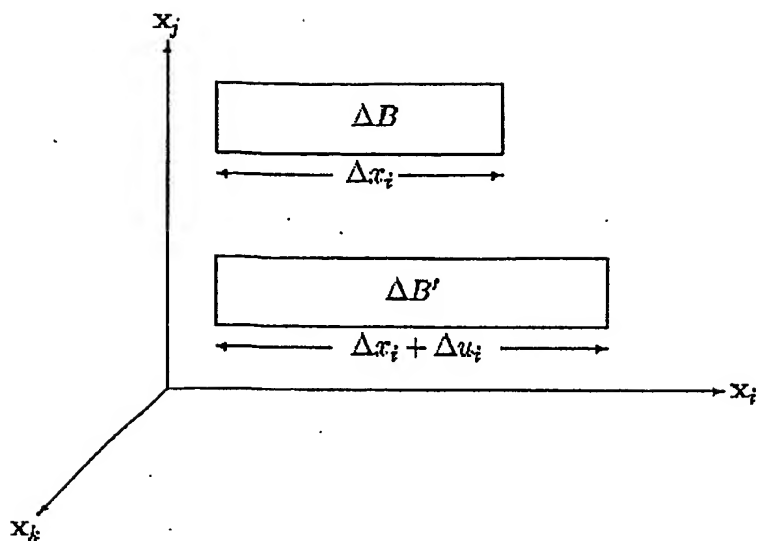


Figure 40

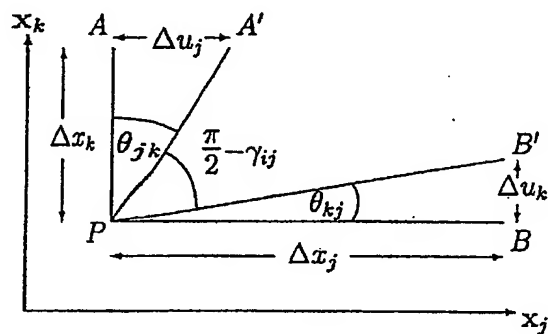


Figure 41

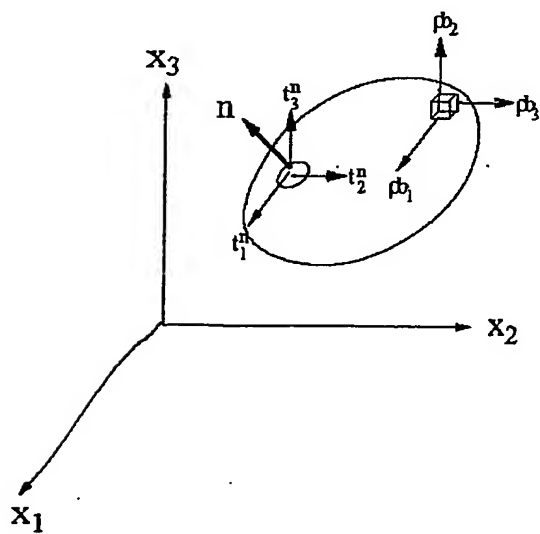


Figure 42

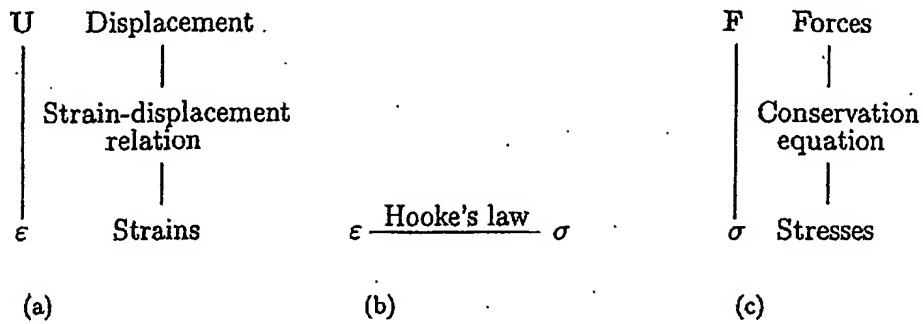


Figure 43

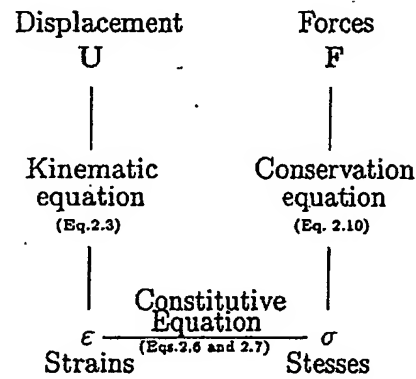


Figure 44

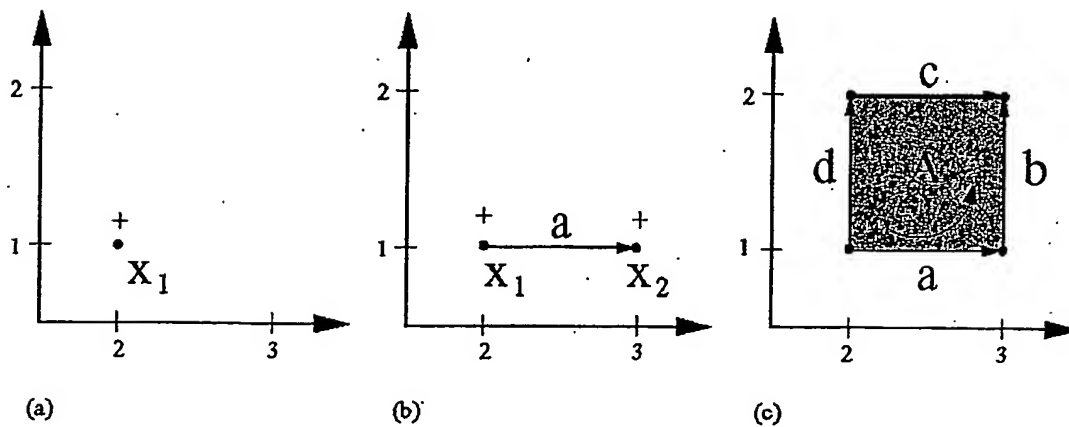


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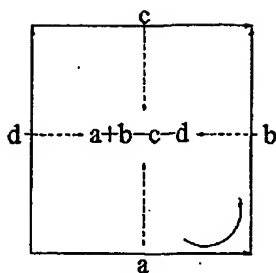


Figure 46

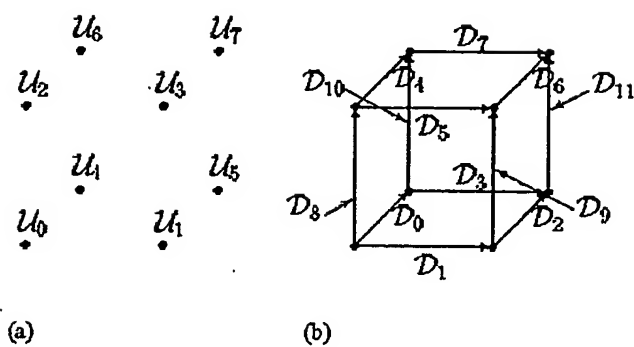


Figure 47

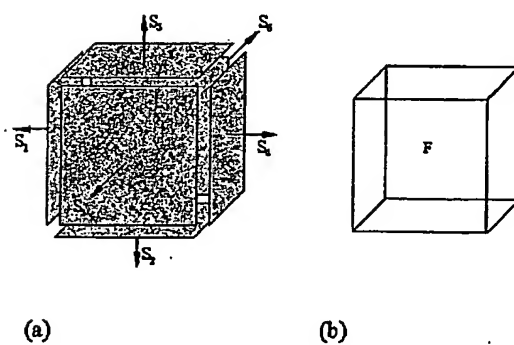


Figure 48

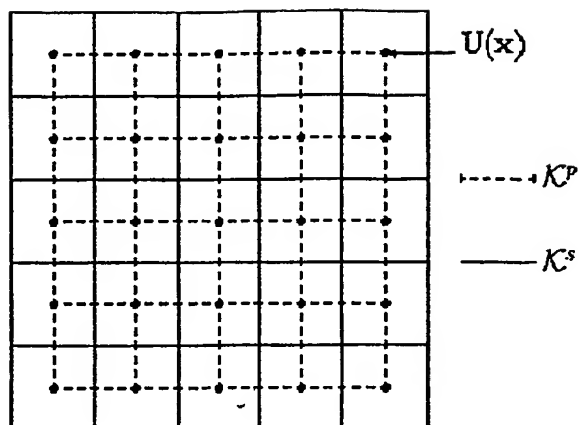


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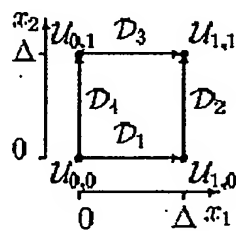


Figure 50

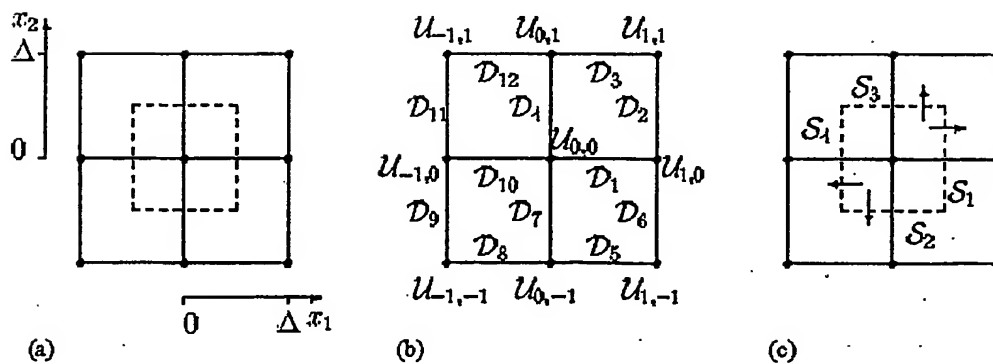


Figure 51

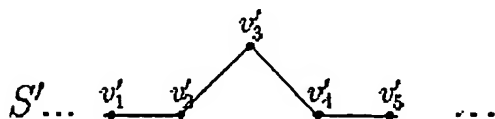
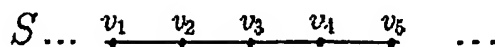


Figure 52

Material	Young's modulus of elasticity ($\times 10^6$ psi)	Poisson's ratio
Aluminium	10	0.33
Iron	29	0.28
Magnesium	6.5	0.33
Nickel	30	0.31
Soft rubber	0.00015	0.49

Figure 53



(a)



(b)

Figure 54



(a)



(b)

Figure 55



Figure 56

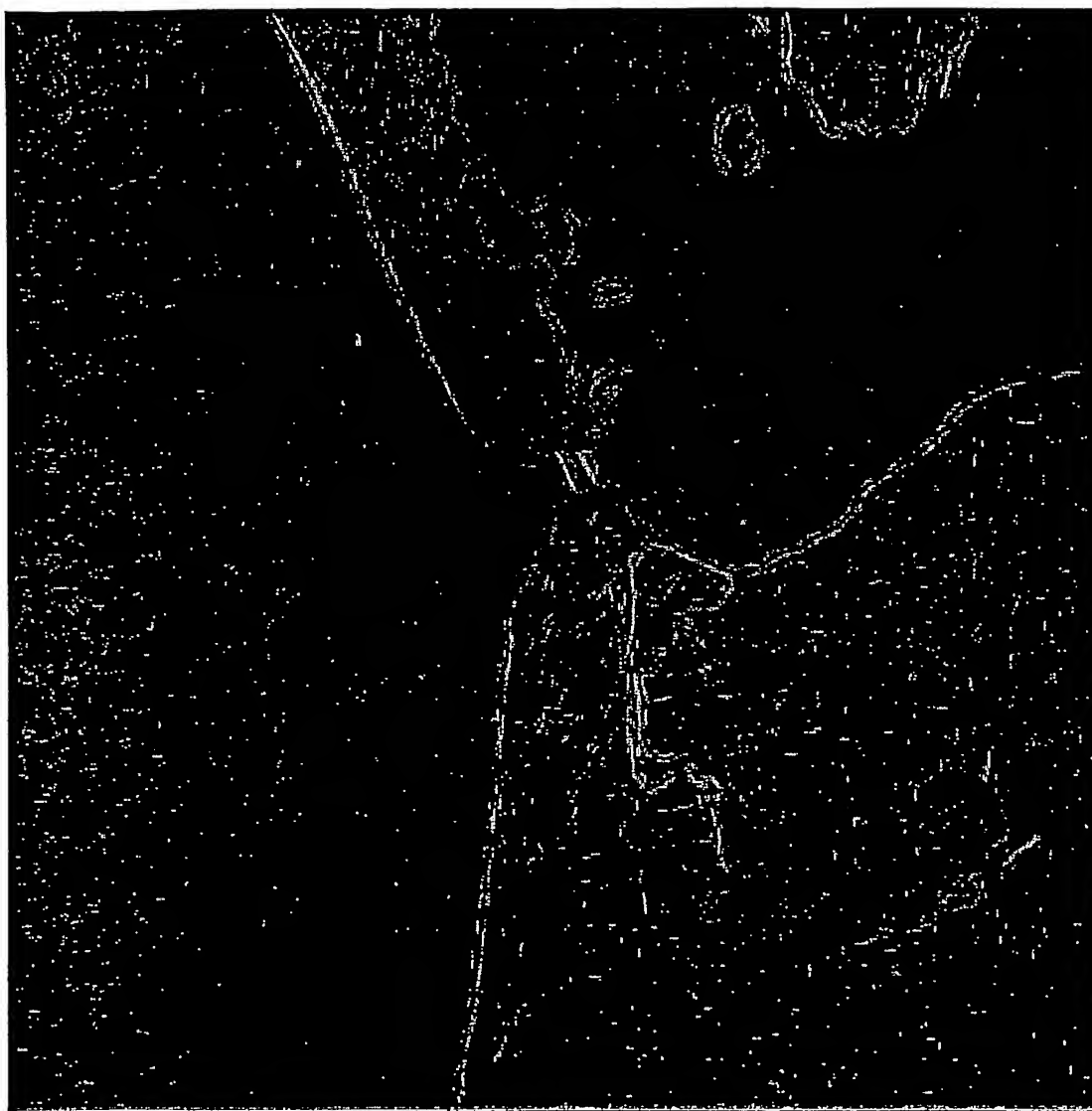


Figure 57

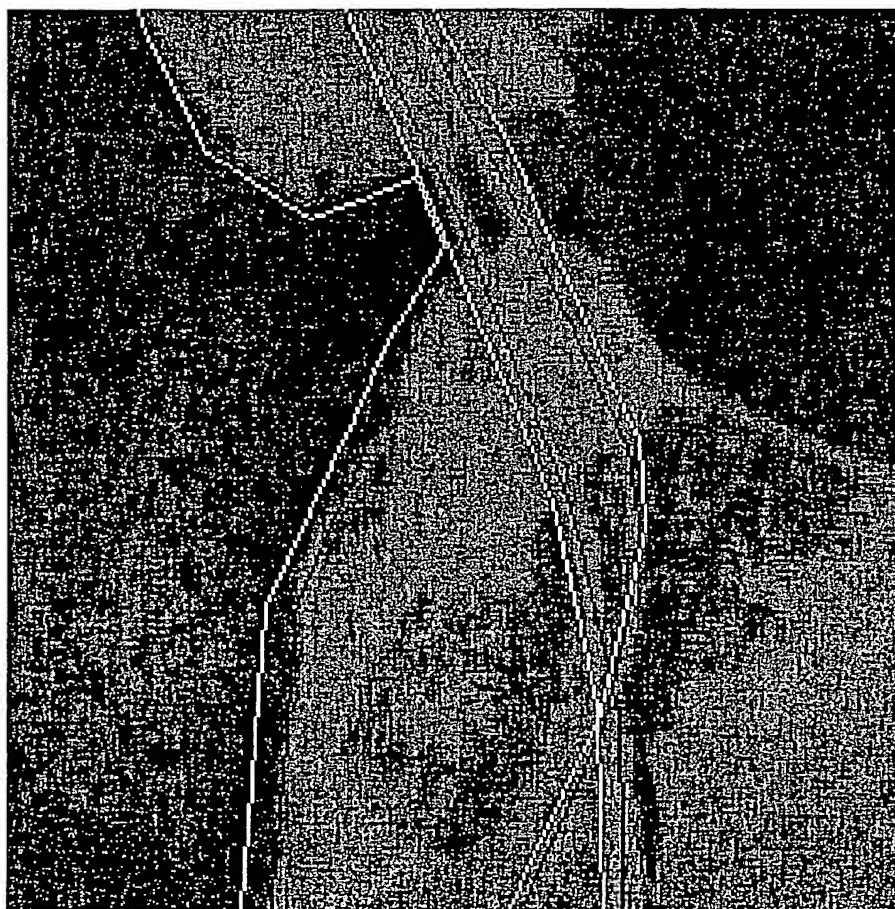


Figure 58

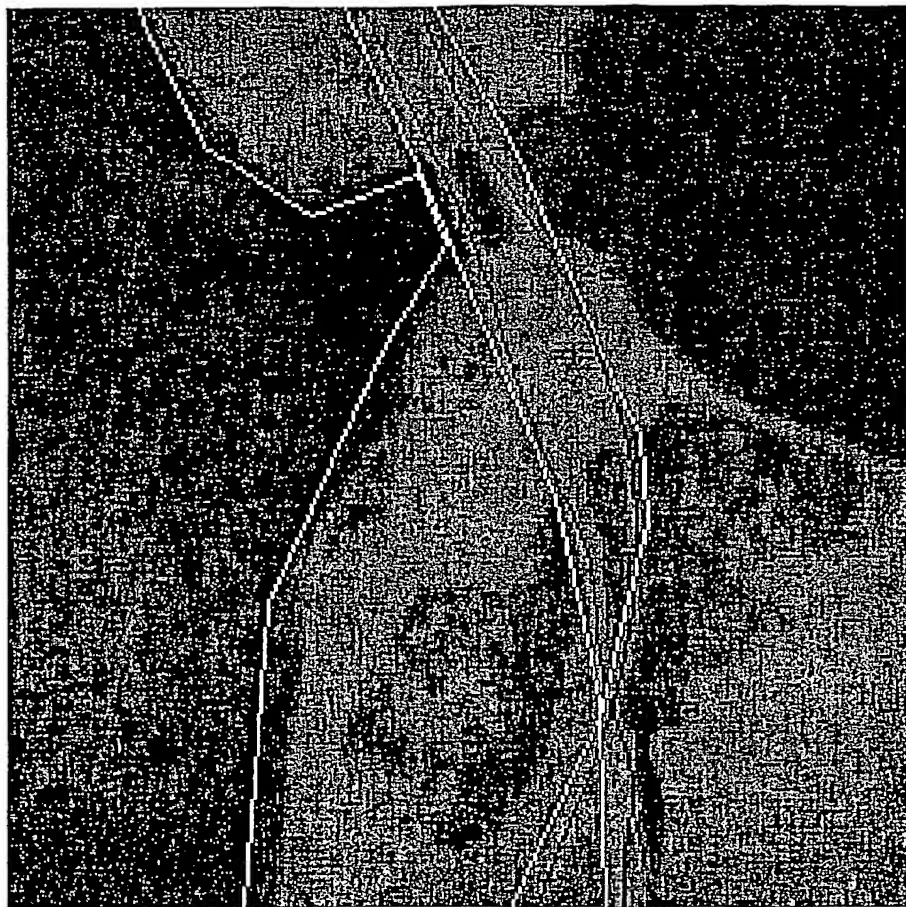


Figure 59

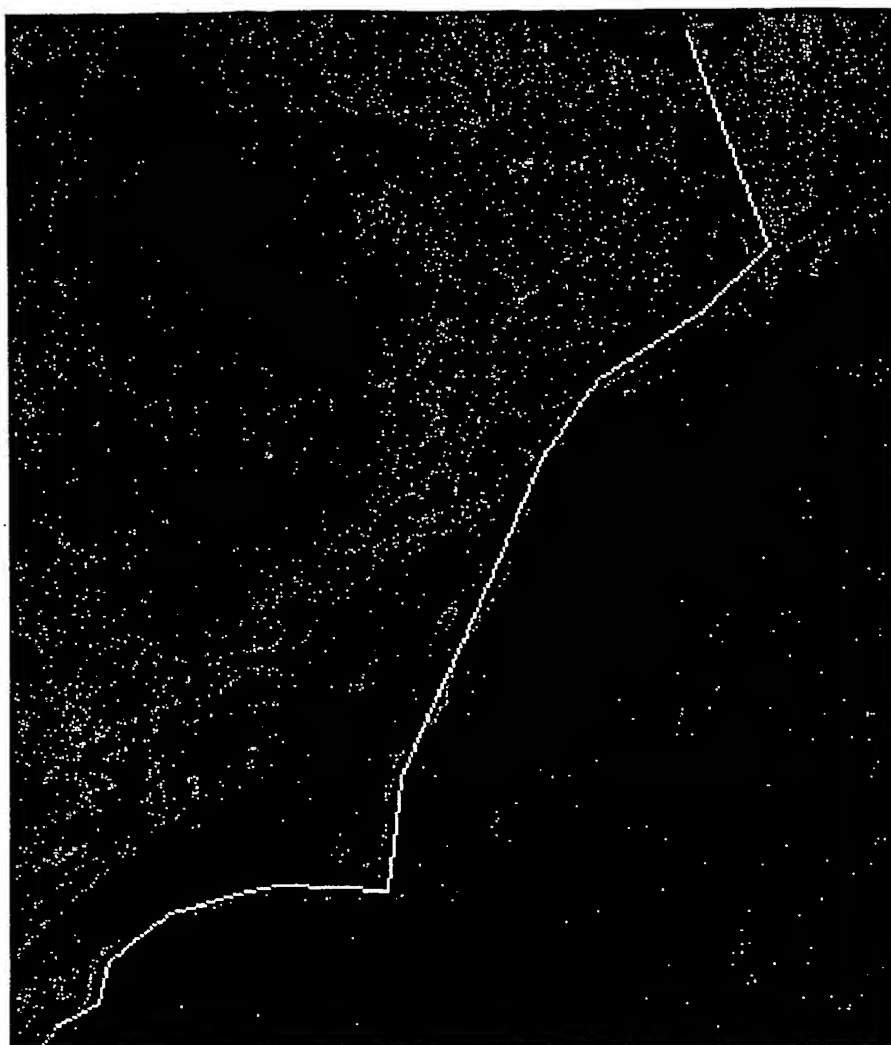


Figure 60

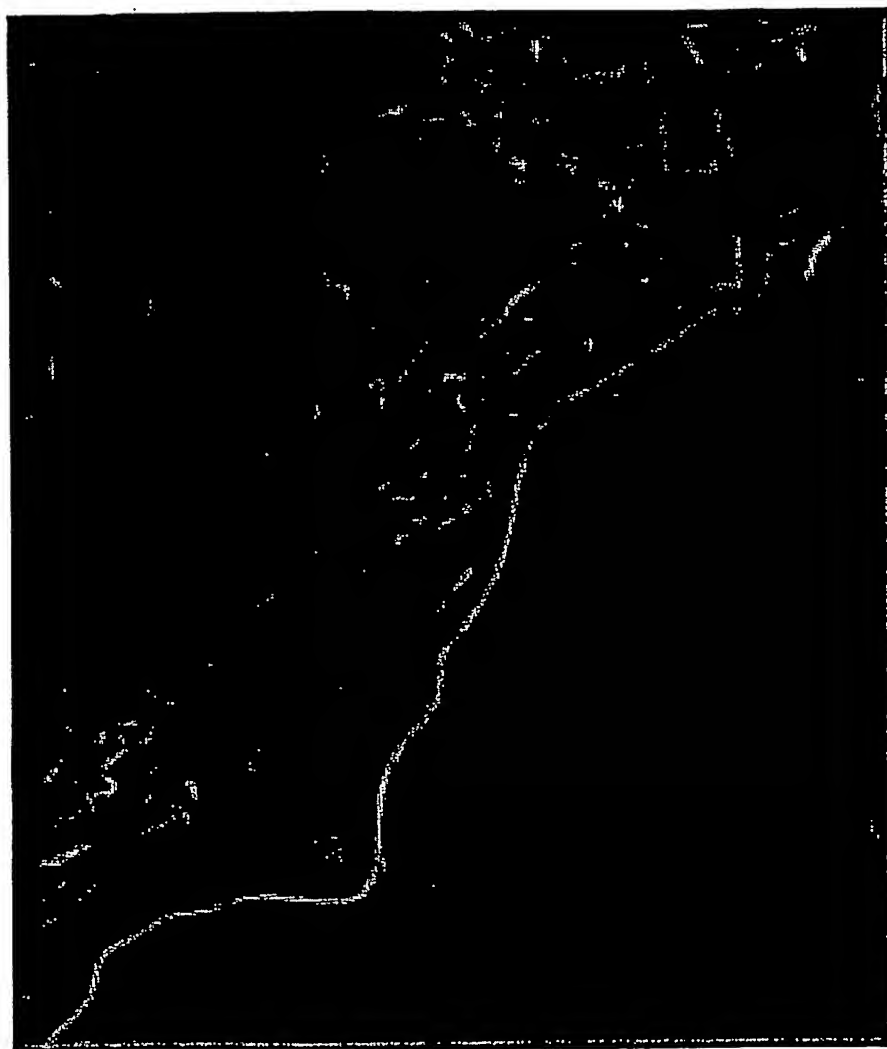


Figure 61

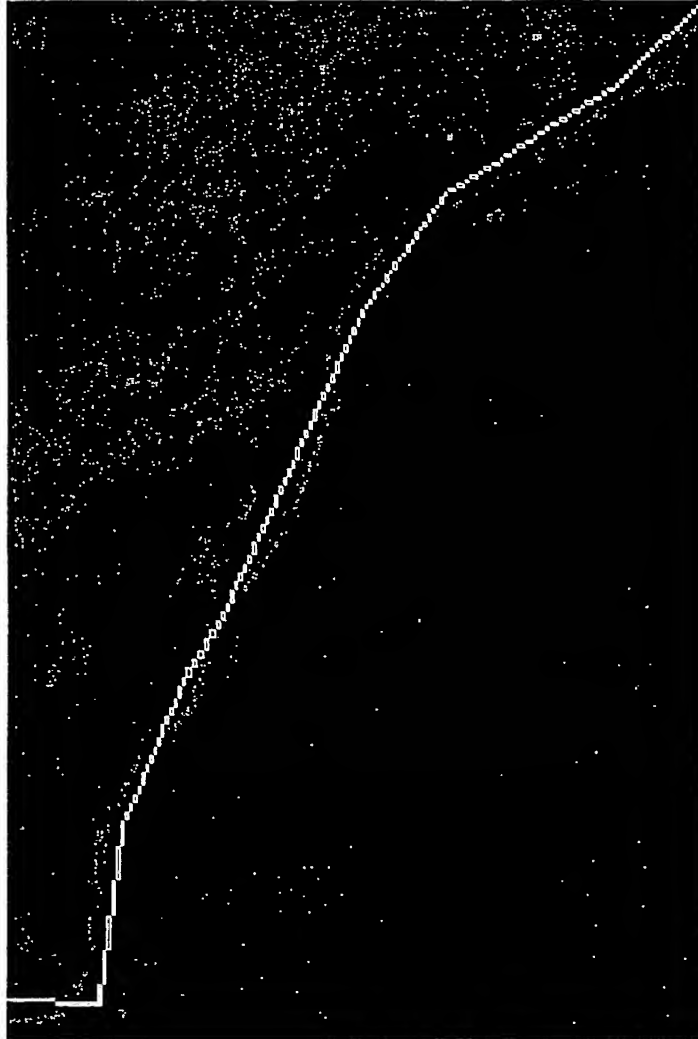


Figure 62

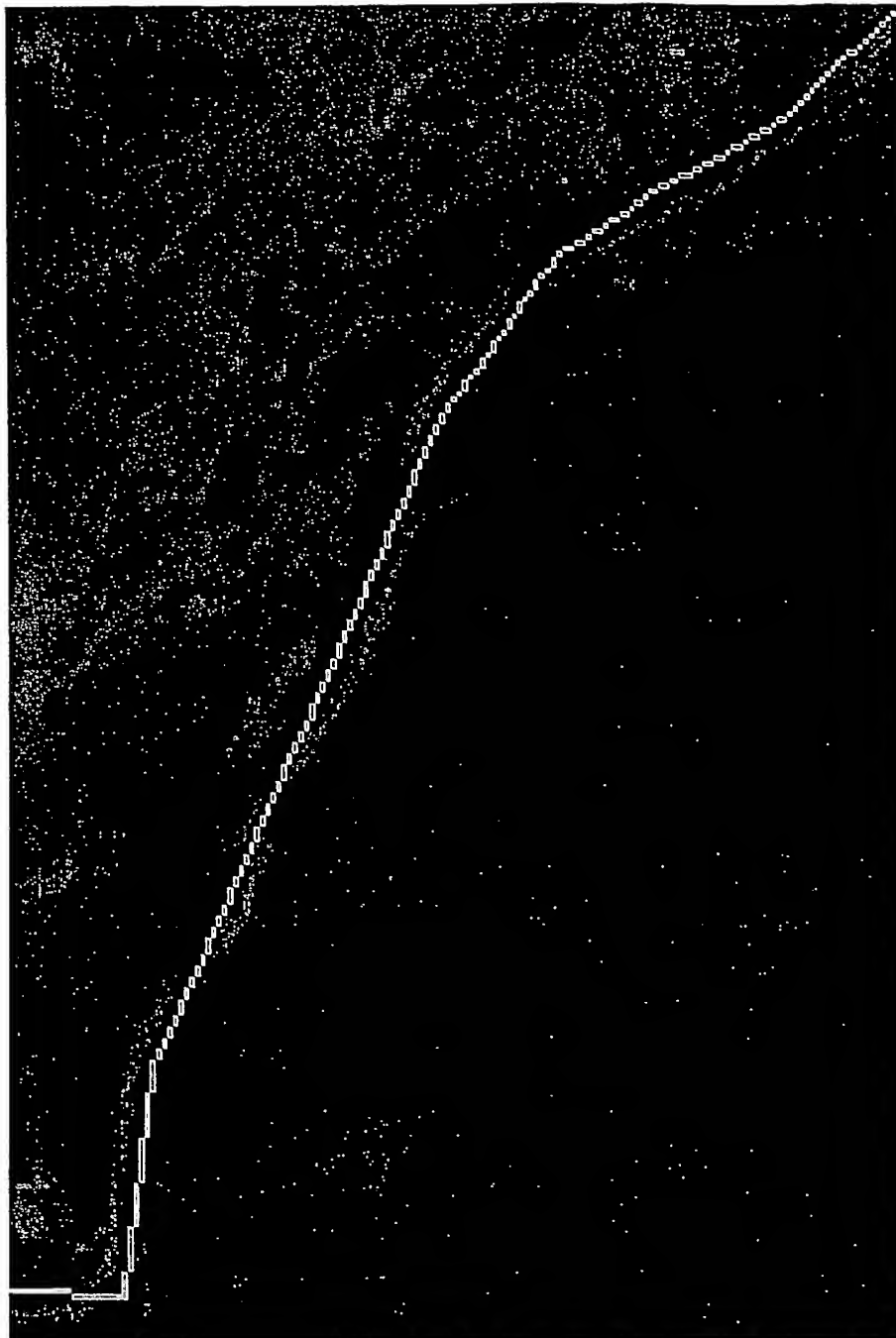
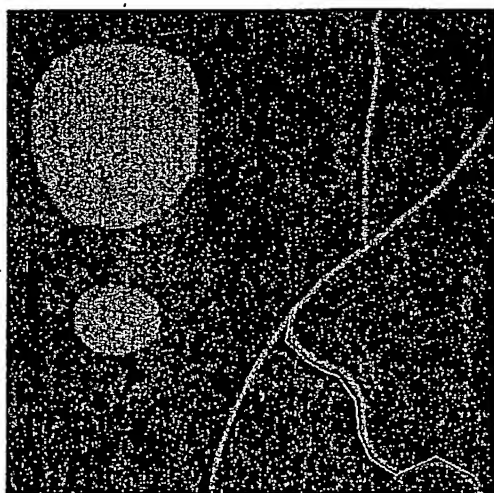
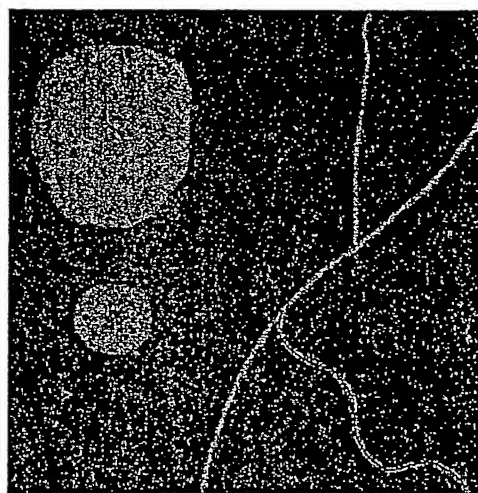


Figure 63

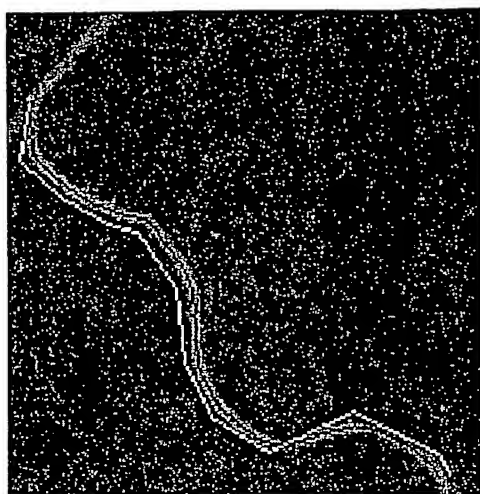


(a)

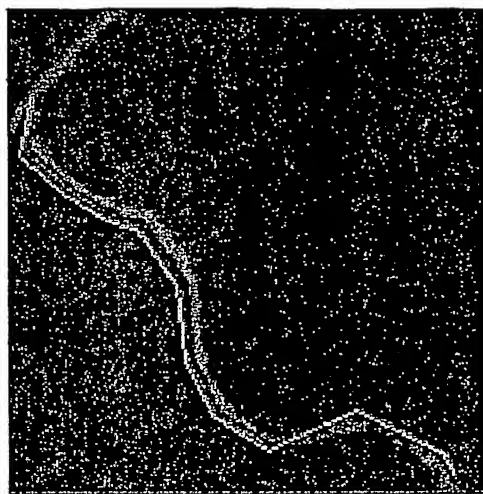


(b)

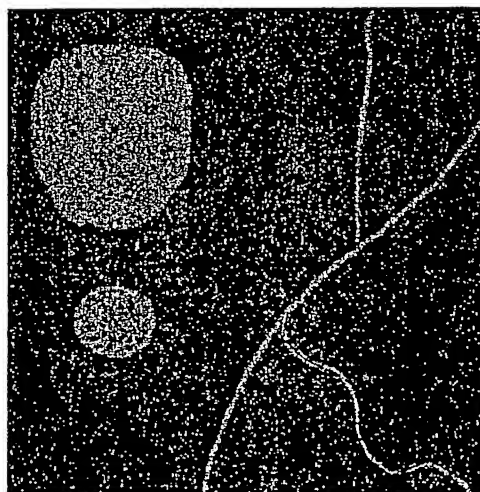
Figure 64



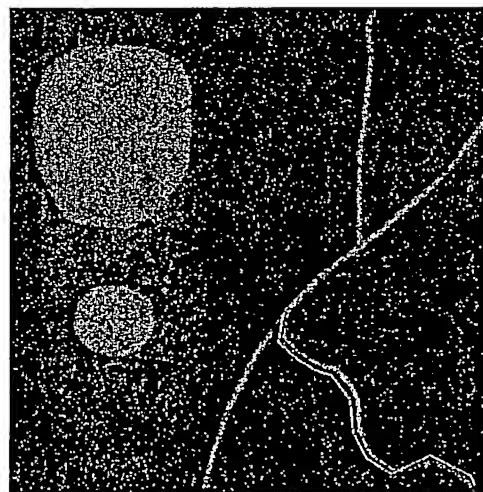
(a)



(b)



(c)



(d)

Figure 65

FIG: 66

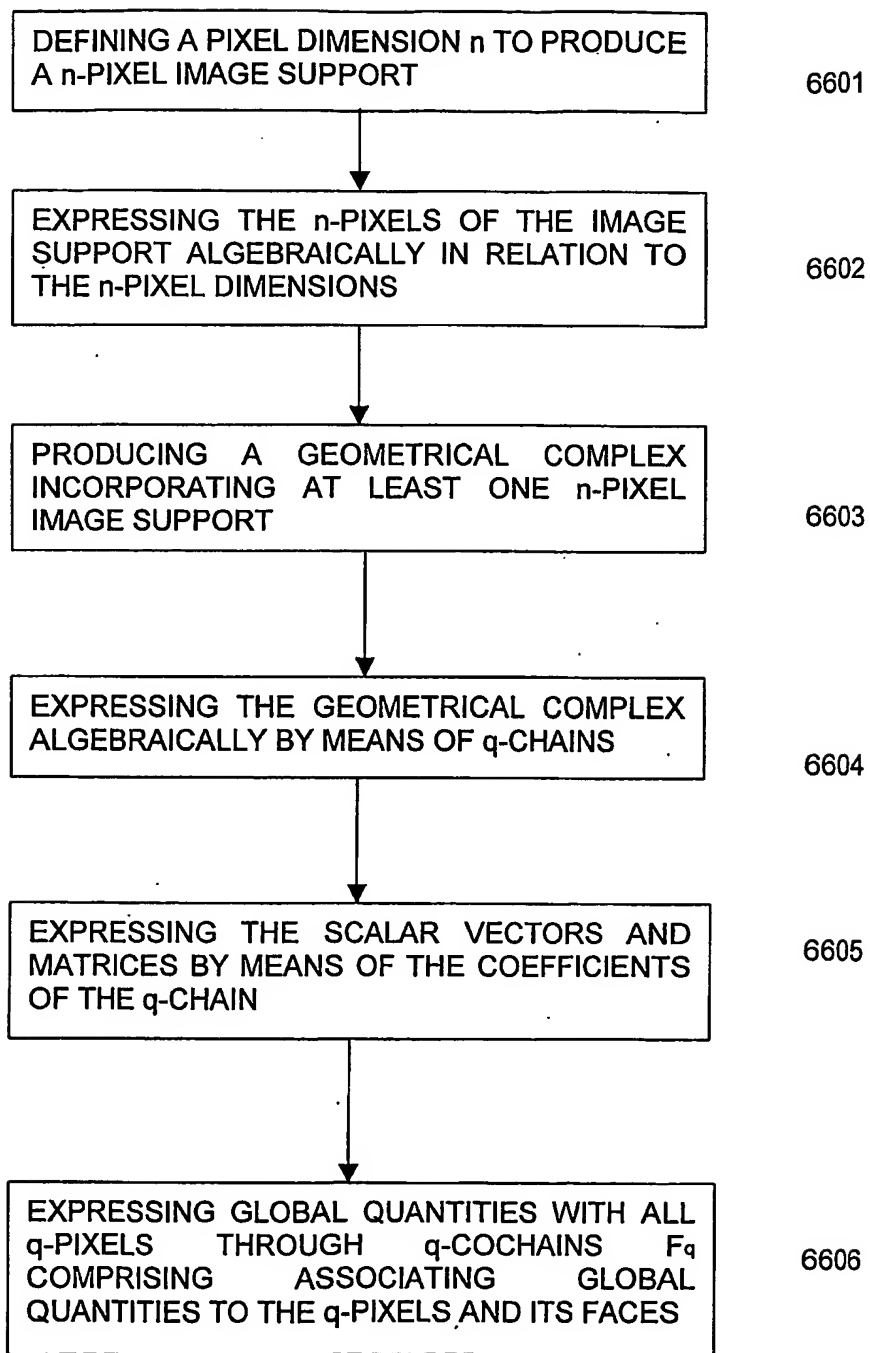
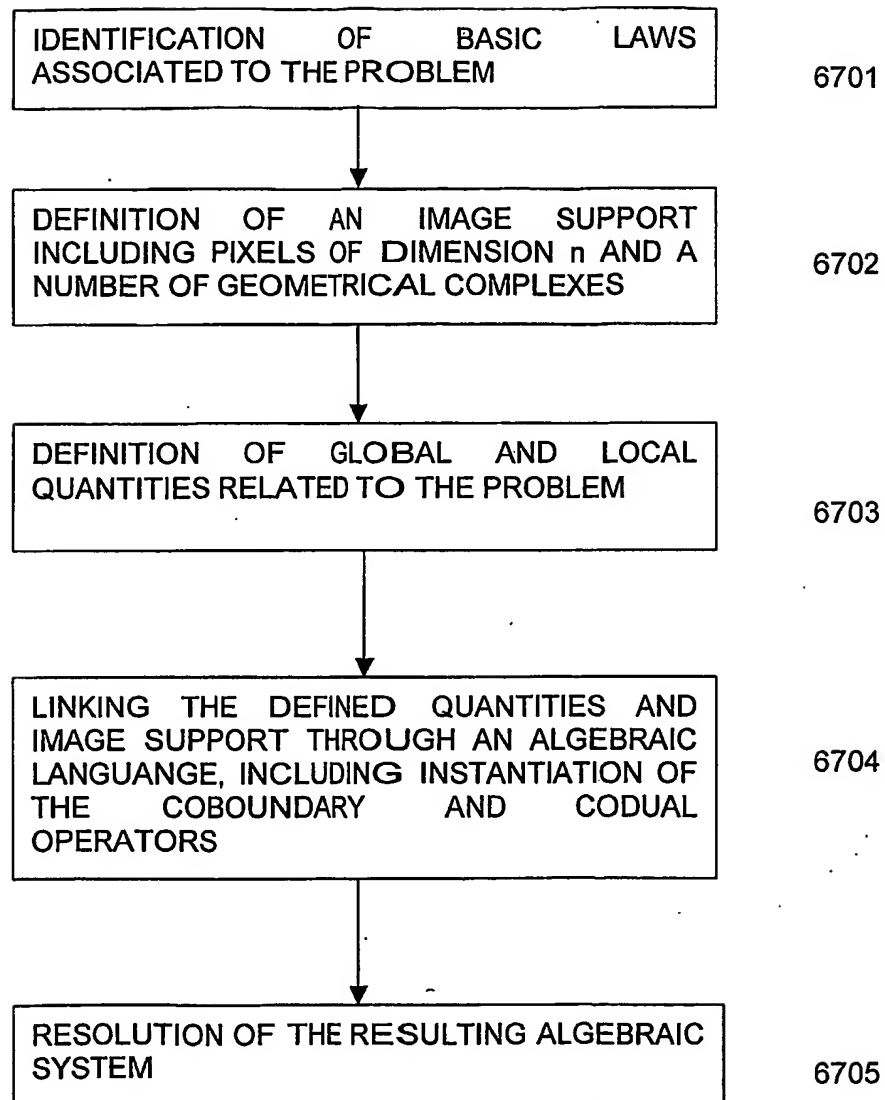


FIG: 67



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